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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/938,330

DATE: 09/10/2001

TIME: 09:23:46

Input Set : A:\LEX-0221-USA SEQLIST.txt  
 Output Set: N:\CRF3\09102001\I938330.raw

4 <110> APPLICANT: Walke, D. Wade  
 5       Hilbun, Erin  
 6       Scoville, John  
 7       Friddle, Carl Johan  
 8       Hu, Yi  
 9       Turner, C. Alexander Jr.  
 11 <120> TITLE OF INVENTION: Novel Human Proteases and Polynucleotides Encoding the Same  
 13 <130> FILE REFERENCE: LEX-0237-USA  
 14--> 15 <140> CURRENT APPLICATION NUMBER: US/09/938,330  
 15 <141> CURRENT FILING DATE: 2001-08-22  
 15 <150> PRIOR APPLICATION NUMBER: US 60/227,104  
 16 <151> PRIOR FILING DATE: 2000-08-22  
 18 <150> PRIOR APPLICATION NUMBER: US 60/233,796  
 19 <151> PRIOR FILING DATE: 2000-09-19  
 21 <160> NUMBER OF SEQ ID NOS: 26  
 23 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 25 <210> SEQ ID NO: 1  
 26 <211> LENGTH: 1356  
 27 <212> TYPE: DNA  
 28 <213> ORGANISM: homo sapiens  
 30 <400> SEQUENCE: 1  
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 32 gccgcgggca gccggacccc agagctgcac ctctctggaa agtcagtga ctatggtgt 120  
 33 acagtgcct gcagcacaga cttcgggga cgcttcctct cccacgtgg gtctggccca 180  
 34 gcagcagcct ctgcaggagg catggtagtg gacacgccac ccacactacc acgacactcc 240  
 35 agtcacccctc gggggctcg cagccctctg cacccaggag ggaccctgtg gcctggcagg 300  
 36 gtggggcgcc actccctcta cttcaatgtc actgttttcg ggaaggaact gcacttgcgc 360  
 37 ctgcggccca atcggagggtt ggtatgtcca ggtatcctcag tggagtggca ggaggatttt 420  
 38 cgggagctgt tccggcagcc cttacggcag gagtggtgtt acactggagg tgtcaetgga 480  
 39 atgcctgggg cagctgtgc catcagcaac tgtgacggat tggcgccct catccgcaca 540  
 40 gacagcacccg acttctcat tgagcctctg gagcggggcc agcaggagaa ggaggccagc 600  
 41 gggaggacac atgtgggtta ccgcggggag gccgtccagc aggagtgggc agaacctgac 660  
 42 ggggacctgc acaatgaagc cttggcctg ggagaccttc ccaacctgtt gggctgggt 720  
 43 ggggaccago tgggcacac agagcggaaag cggcggcatg ccaagccagg cagctacagc 780  
 44 atcgaggtgc tgctgggtt ggacgactcg gtgggtcgct tccatggcaa ggagcatgtg 840  
 45 cagaactatg tcctcaccct catgaatatac gttagatgaga ttaccacga tgagtccctg 900  
 46 ggggttcata taaatattgc ctcgtccgc ttgatcatgg ttggctaccg acagttccctg 960  
 47 agcctgatcg agcgcggaa cccctcacgc agcctggagc agtgtgtcg ctggcacac 1020  
 48 tcccagcagc gccaggaccc cagccacgct gagcaccatg accacgttg tttcctcacc 1080  
 49 cggcaggact ttggccctc agggtatgca cccgtcactg gcatgtgtca cccccctgagg 1140  
 50 agctgtgccc tcaaccatga ggtatggctt tcctcagct tcgtgtatgc tcatgagacc 1200  
 51 ggcacagtgc tcggcatgga gcatgacggt cagggaaatg gctgtgcaga tgagaccagc 1260  
 52 ctgggcagcg tcatggcgc cctgggtcag gtcgccttcc accgcttcca ttggtcccg 1320  
 53 tgcagcaagc tggagctcag ccgtaccc tcgttag 1356  
 55 <210> SEQ ID NO: 2  
 56 <211> LENGTH: 451  
 57 <212> TYPE: PRT

ENTERED

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58 <213> ORGANISM: homo sapiens  
 60 <400> SEQUENCE: 2  
 61 Met Ala Pro Leu Arg Ala Leu Leu Ser Tyr Leu Leu Pro Leu His Cys  
 62 1 5 10 15  
 63 Ala Leu Cys Ala Ala Ala Gly Ser Arg Thr Pro Glu Leu His Leu Ser  
 64 20 25 30  
 65 Gly Lys Leu Ser Asp Tyr Gly Val Thr Val Pro Cys Ser Thr Asp Phe  
 66 35 40 45  
 67 Arg Gly Arg Phe Leu Ser His Val Val Ser Gly Pro Ala Ala Ala Ser  
 68 50 55 60  
 69 Ala Gly Ser Met Val Val Asp Thr Pro Pro Thr Leu Pro Arg His Ser  
 70 65 70 75 80  
 71 Ser His Leu Arg Val Ala Arg Ser Pro Leu His Pro Gly Gly Thr Leu  
 72 85 90 95  
 73 Trp Pro Gly Arg Val Gly Arg His Ser Leu Tyr Phe Asn Val Thr Val  
 74 100 105 110  
 75 Phe Gly Lys Glu Leu His Leu Arg Leu Arg Pro Asn Arg Arg Leu Val  
 76 115 120 125  
 77 Val Pro Gly Ser Ser Val Glu Trp Gln Glu Asp Phe Arg Glu Leu Phe  
 78 130 135 140  
 79 Arg Gln Pro Leu Arg Gln Glu Cys Val Tyr Thr Gly Gly Val Thr Gly  
 80 145 150 155 160  
 81 Met Pro Gly Ala Ala Val Ala Ile Ser Asn Cys Asp Gly Leu Ala Gly  
 82 165 170 175  
 83 Leu Ile Arg Thr Asp Ser Thr Asp Phe Phe Ile Glu Pro Leu Glu Arg  
 84 180 185 190  
 85 Gly Gln Gln Glu Lys Glu Ala Ser Gly Arg Thr His Val Val Tyr Arg  
 86 195 200 205  
 87 Arg Glu Ala Val Gln Gln Glu Trp Ala Glu Pro Asp Gly Asp Leu His  
 88 210 215 220  
 89 Asn Glu Ala Phe Gly Leu Gly Asp Leu Pro Asn Leu Leu Gly Leu Val  
 90 225 230 235 240  
 91 Gly Asp Gln Leu Gly Asp Thr Glu Arg Lys Arg Arg His Ala Lys Pro  
 92 245 250 255  
 93 Gly Ser Tyr Ser Ile Glu Val Leu Leu Val Val Asp Asp Ser Val Val  
 94 260 265 270  
 95 Arg Phe His Gly Lys Glu His Val Gln Asn Tyr Val Leu Thr Leu Met  
 96 275 280 285  
 97 Asn Ile Val Asp Glu Ile Tyr His Asp Glu Ser Leu Gly Val His Ile  
 98 290 295 300  
 99 Asn Ile Ala Leu Val Arg Leu Ile Met Val Gly Tyr Arg Gln Ser Leu  
 100 305 310 315 320  
 101 Ser Leu Ile Glu Arg Gly Asn Pro Ser Arg Ser Leu Glu Gln Val Cys  
 102 325 330 335  
 103 Arg Trp Ala His Ser Gln Gln Arg Gln Asp Pro Ser His Ala Glu His  
 104 340 345 350  
 105 His Asp His Val Val Phe Leu Thr Arg Gln Asp Phe Gly Pro Ser Gly  
 106 355 360 365  
 107 Tyr Ala Pro Val Thr Gly Met Cys His Pro Leu Arg Ser Cys Ala Leu

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Input Set : A:\LEX-0221-USA SEQLIST.txt  
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108	370	375	380	
109	Asn His Glu Asp Gly Phe Ser Ser Ala Phe Val Ile Ala His Glu Thr			
110	385	390	395	400
111	Gly His Val Leu Gly Met Glu His Asp Gly Gln Gly Asn Gly Cys Ala			
112	405	410	415	
113	Asp Glu Thr Ser Leu Gly Ser Val Met Ala Pro Leu Val Gln Ala Ala			
114	420	425	430	
115	Phe His Arg Phe His Trp Ser Arg Cys Ser Lys Leu Glu Leu Ser Arg			
116	435	440	445	
117	Tyr Leu Pro			
118	450			
120	<210> SEQ ID NO: 3			
121	<211> LENGTH: 894			
122	<212> TYPE: DNA			
123	<213> ORGANISM: homo sapiens			
125	<400> SEQUENCE: 3			
126	atggctccac tccgcgcgct gctgtcctac ctgctgcctt tgcaactgtgc gctctgrcc		60	
127	gccgcgggca gccggacccc agagctgcac ctctctggaa agctcaatgtca ctatgggttg		120	
128	acagtgcctt gcagcacaga ctttcgggaa cgcttcctct cccacgttgt gtctggccca		180	
129	gcagcagcct ctgcaggagcatgttagt gacacgcccac ccacactacc acgacactcc		240	
130	agtccacccctt ggggtggctcg cagccctctg caccaggag ggaccctgtg gcctggcagg		300	
131	gtggggcgcc actccctcta cttcaatgtc actgttttgg ggaaggaact gcaattgcgc		360	
132	ctgcggccca atcggagggtt ggtgtgcgc ggtatccttgc tggagtggca ggaggatttt		420	
133	cgggagctgt tccggcagcc cttacggcag gagtgtgtgt acactggagg tgtcactgg		480	
134	atgcctgggg cagctgttgc catcagcaac tgtgacggat tggcgggcct catccgcaca		540	
135	gacagcaccg acttccat tgagcctctg gagcccccc acgaggagaa ggaggccagc		600	
136	gggaggacac atgtgggtta cccgcgggag gccgtccagc aggagtggc agaacctgac		660	
137	ggggacctgc acaatgaagc ctttggcctg ggagaccttc ccaacctgtct gggctgg		720	
138	ggggaccagc tgggcacac agagcggaaag cggccgcattt ccaagccagg cagctacagc		780	
139	atcgagggtgc tgctgggtt ggacgactcg gtggttcgct tccatggcaa ggagcatgt		840	
140	cagaactatg tcctcaccct catgaataatc gtgtgcttac agggaaagtcc ataa		894	
142	<210> SEQ ID NO: 4			
143	<211> LENGTH: 297			
144	<212> TYPE: PRT			
145	<213> ORGANISM: homo sapiens			
147	<400> SEQUENCE: 4			
148	Met Ala Pro Leu Arg Ala Leu Leu Ser Tyr Leu Leu Pro Leu His Cys			
149	1 5 10 15			
150	Ala Leu Cys Thr Ala Ala Gly Ser Arg Thr Pro Glu Leu His Leu Ser			
151	20 25 30			
152	Gly Lys Leu Ser Asp Tyr Gly Val Thr Val Pro Cys Ser Thr Asp Phe			
153	35 40 45			
154	Arg Gly Arg Phe Leu Ser His Val Val Ser Gly Pro Ala Ala Ala Ser			
155	50 55 60			
156	Ala Gly Ser Met Val Val Asp Thr Pro Pro Thr Leu Pro Arg His Ser			
157	65 70 75 80			
158	Ser His Leu Arg Val Ala Arg Ser Pro Leu His Pro Gly Gly Thr Leu			
159	85 90 95			
160	Trp Pro Gly Arg Val Gly Arg His Ser Leu Tyr Phe Asn Val Thr Val			

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Input Set : A:\LEX-0221-USA SEQLIST.txt  
 Output Set: N:\CRF3\09102001\I938330.raw

161	100	105	110
162	Phe Gly Lys Glu Leu His Leu Arg Leu Arg Pro Asn Arg Arg Leu Val		
163	115	120	125
164	Val Pro Gly Ser Ser Val Glu Trp Gln Glu Asp Phe Arg Glu Leu Phe		
165	130	135	140
166	Arg Gln Pro Leu Arg Gln Glu Cys Val Tyr Thr Gly Gly Val Thr Gly		
167	145	150	155
168	Met Pro Gly Ala Ala Val Ala Ile Ser Asn Cys Asp Gly Leu Ala Gly		
169	165	170	175
170	Leu Ile Arg Thr Asp Ser Thr Asp Phe Phe Ile Glu Pro Leu Glu Arg		
171	180	185	190
172	Gly Gln Gln Glu Lys Glu Ala Ser Gly Arg Thr His Val Val Tyr Arg		
173	195	200	205
174	Arg Glu Ala Val Gln Gln Glu Trp Ala Glu Pro Asp Gly Asp Leu His		
175	210	215	220
176	Asn Glu Ala Phe Gly Leu Gly Asp Leu Pro Asn Leu Leu Gly Leu Val		
177	225	230	235
178	Gly Asp Gln Leu Gly Asp Thr Glu Arg Lys Arg Arg His Ala Lys Pro		
179	245	250	255
180	Gly Ser Tyr Ser Ile Glu Val Leu Leu Val Val Asp Asp Ser Val Val		
181	260	265	270
182	Arg Phe His Gly Lys Glu His Val Gln Asn Tyr Val Leu Thr Leu Met		
183	275	280	285
184	Asn Ile Val Cys Leu Gln Gly Ser Pro		
185	290	295	
187	<210> SEQ ID NO: 5		
188	<211> LENGTH: 1461		
189	<212> TYPE: DNA		
190	<213> ORGANISM: homo sapiens		
192	<400> SEQUENCE: 5		
193	atggctccac tccgcgcgct gctgtcctac ctgctgcctt tgcactgtgc gctctgcrc	60	
194	gccgcgggca gccggacccc agagctcac ctctctggaa agctcagtga ctatggtgt	120	
195	acagtgcct gcagcacaga ctttcgggaa cgcttcctct cccacgtgg gtctggcc	180	
196	gcagcagcct ctgcaggag catggtagtg gacacgcccc ccacactacc acgacactcc	240	
197	agtcacctcc gggctggctcg cagccctctg caccaggag ggaccctgtg gcctggcagg	300	
198	gtggggcgcc actccctcta cttcaatgtc actgtttcg ggaaggaact gcacttgcgc	360	
199	ctgcggccca atcggagggt ggtatgcga ggatcctcag tggagtgcca ggaggattt	420	
200	cgggagctgt tccggcagcc cttacggcag gagtggtgt acactggagg tgtcaactgga	480	
201	atgcctgggg cagctgttgc catcagcaac tgtgacggat tggcgggc catccgcaca	540	
202	gacagcaccc acttcttcat tgagccctcg gagcggggcc agcaggagaa ggaggccagc	600	
203	gggaggacac atgtgtgtc cccgcgggag gccgtccagc aggagtggc agaacctgac	660	
204	ggggacactgc acaaataaagg ctttggcctg ggagaccc ccaacactgct gggcctgg	720	
205	ggggaccaggc tgggcacac agagcggaa cggccgcac ccaagccagg cagctacagc	780	
206	atcgaggtgc tgctgtgggt ggacgactcg gtgggtcg tccatggcaa ggagcatgt	840	
207	cagaactatg tcctcaccct catgaatatac gtagatgaga ttaccacaga tgagtccctg	900	
208	ggggttcata taaaatattgc cctcgtccgc ttgatcatgg ttggctacc acgtccctg	960	
209	agcctgatcg agcgcggaa cccctcaccgc agcctggagc aggtgtgtcg ctggcacac	1020	
210	tcccagcagc gccagcaccc cagccacgct gaggcaccatg accacgttgt gttcctcacc	1080	
211	cgccaggact ttggccctc agggtatgca cccgtcaactg gcatgtgtca cccctgagg	1140	

RAW SEQUENCE LISTING  
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212	agctgtgcc	tcaaccatga	ggatggcttc	tcctcagcct	tcgtgatagc	tcatgagacc	1200
213	gccccacgtgc	tcggcatgga	gcatgacgg	cagggaaatg	gctgtgcaga	tgagaccagg	1260
214	ctgggcagcg	tcatggcgcc	cctggtgcag	gctgccttcc	accgcttcca	ttggtcccgc	1320
215	tgcagcaagc	tggagctcag	ccgctaccc	ccctcctacg	actgcctcc	cgatgacc	1380
216	tttgatcctg	ccacctgccc	ggggccgcgc	tgcagcccta	tagtgagtcg	tattaggatg	1440
217	gccgccactc	ccttactta	a				1461
219	<210>	SEQ ID NO:	6				
220	<211>	LENGTH:	486				
221	<212>	TYPE:	PRT				
222	<213>	ORGANISM:	homo sapiens				
224	<400>	SEQUENCE:	6				
225	Met Ala Pro Leu Arg Ala Leu Leu Ser Tyr Leu Leu Pro Leu His Cys						
226	1	5	10	15			
227	Ala Leu Cys Thr Ala Ala Gly Ser Arg Thr Pro Glu Leu His Leu Ser						
228	20	25	30				
229	Gly Lys Leu Ser Asp Tyr Gly Val Thr Val Pro Cys Ser Thr Asp Phe						
230	35	40	45				
231	Arg Gly Arg Phe Leu Ser His Val Val Ser Gly Pro Ala Ala Ala Ser						
232	50	55	60				
233	Ala Gly Ser Met Val Val Asp Thr Pro Pro Thr Leu Pro Arg His Ser						
234	65	70	75	80			
235	Ser His Leu Arg Val Ala Arg Ser Pro Leu His Pro Gly Gly Thr Leu						
236	85	90	95				
237	Trp Pro Gly Arg Val Gly Arg His Ser Leu Tyr Phe Asn Val Thr Val						
238	100	105	110				
239	Phe Gly Lys Glu Leu His Leu Arg Leu Arg Pro Asn Arg Arg Leu Val						
240	115	120	125				
241	Val Pro Gly Ser Ser Val Glu Trp Gln Glu Asp Phe Arg Glu Leu Phe						
242	130	135	140				
243	Arg Gln Pro Leu Arg Gln Glu Cys Val Tyr Thr Gly Gly Val Thr Gly						
244	145	150	155	160			
245	Met Pro Gly Ala Ala Val Ala Ile Ser Asn Cys Asp Gly Leu Ala Gly						
246	165	170	175				
247	Leu Ile Arg Thr Asp Ser Thr Asp Phe Phe Ile Glu Pro Leu Glu Arg						
248	180	185	190				
249	Gly Gln Gln Glu Lys Glu Ala Ser Gly Arg Thr His Val Val Tyr Arg						
250	195	200	205				
251	Arg Glu Ala Val Gln Gln Glu Trp Ala Glu Pro Asp Gly Asp Leu His						
252	210	215	220				
253	Asn Glu Ala Phe Gly Leu Gly Asp Leu Pro Asn Leu Leu Gly Leu Val						
254	225	230	235	240			
255	Gly Asp Gln Leu Gly Asp Thr Glu Arg Lys Arg Arg His Ala Lys Pro						
256	245	250	255				
257	Gly Ser Tyr Ser Ile Glu Val Leu Leu Val Val Asp Asp Ser Val Val						
258	260	265	270				
259	Arg Phe His Gly Lys Glu His Val Gln Asn Tyr Val Leu Thr Leu Met						
260	275	280	285				
261	Asn Ile Val Asp Glu Ile Tyr His Asp Glu Ser Leu Gly Val His Ile						
262	290	295	300				

**VERIFICATION SUMMARY**

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DATE: 09/10/2001

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Input Set : A:\LEX-0221-USA SEQLIST.txt  
Output Set: N:\CRF3\09102001\I938330.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No  
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date